## INTERNATIONAL SEARCH REPORT

International application No.

	PCT/JP2	2005/000274
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C22C38/00, 38/58, C21D6/00,	8/00, G21C3/07, 13/08,	G21D1/00
According to International Patent Classification (IPC) or to both nation	nal classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by Int.Cl <sup>7</sup> C22C38/00-38/60, C21D6/00, 8	classification symbols) 3/00, G21C3/07, 13/08, G	21D1/00
Kokai Jitsuyo Shinan Koho 1971-2005 T	Sitsuyo Shinan Toroku Koho Coroku Jitsuyo Shinan Koho	1996-2005 1994-2005
Electronic data base consulted during the international search (name of WPI (DIALOG)	f data base and, where practicable, search to	erms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where a		Relevant to claim No.
X JP 5-59494 A (Hitachi, Ltd. Y 09 March, 1993 (09.03.93), Examples & EP 530725 A1 & US	), S 5316597 A	1,4,5,7,9-12 2,3,6
<pre>X     JP 7-209485 A (Hitachi, Ltd Y     11 August, 1995 (11.08.95),      Examples      (Family: none)</pre>	.),	1,4,5,7,9-12 2,3,6
JP 2-97651 A (Aichi Steel Wolf), 10 April, 1990 (10.04.90), Page 6, lower right column (Family: none)	orks Ltd.),	2,3
Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> </ul>	
cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 12 April, 2005 (12.04.05)	Date of mailing of the international sear 10 May, 2005 (10.05	-
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.	

## INTERNATIONAL SEARCH REPORT

International application No.

·PCT/JP2005/000274

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 4-14182 B2 (STOODY DELORO STELLITE, Inc.), 12 March, 1992 (12.03.92), Column 3, line 44 & FR 2573440 A & US 4643767 A & NL 8600208 A & US 4720435 A & GB 2167088 B & CA 1262514 B & SE 463105 B & IT 1188205 B	6
<b>A</b>	JP 54-69516 A (Hitachi, Ltd.), 04 June, 1979 (04.06.79), (Family: none)	8
A	JP 64-9379 B2 (Kobe Steel, Ltd.), 17 February, 1989 (17.02.89), (Family: none)	8